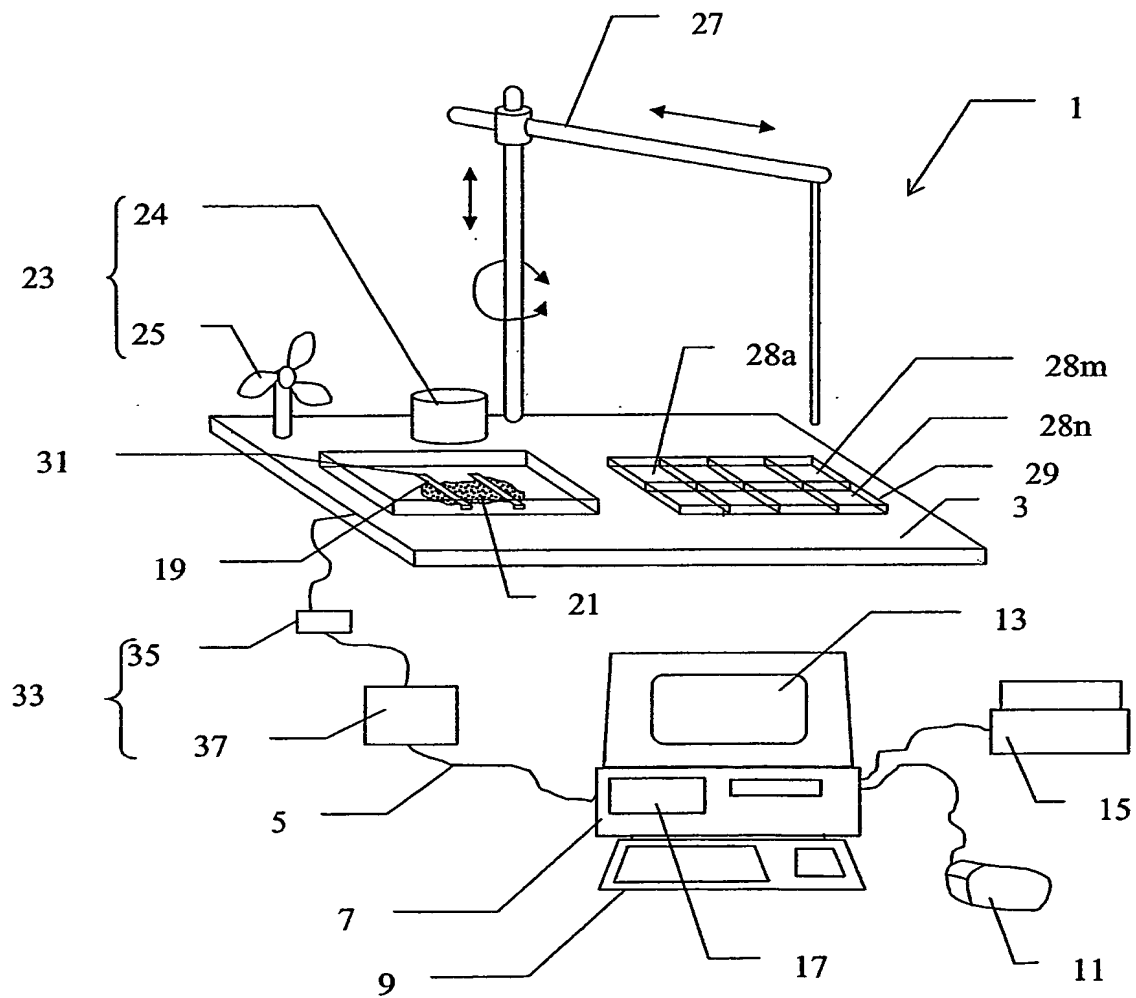


Fig. 1



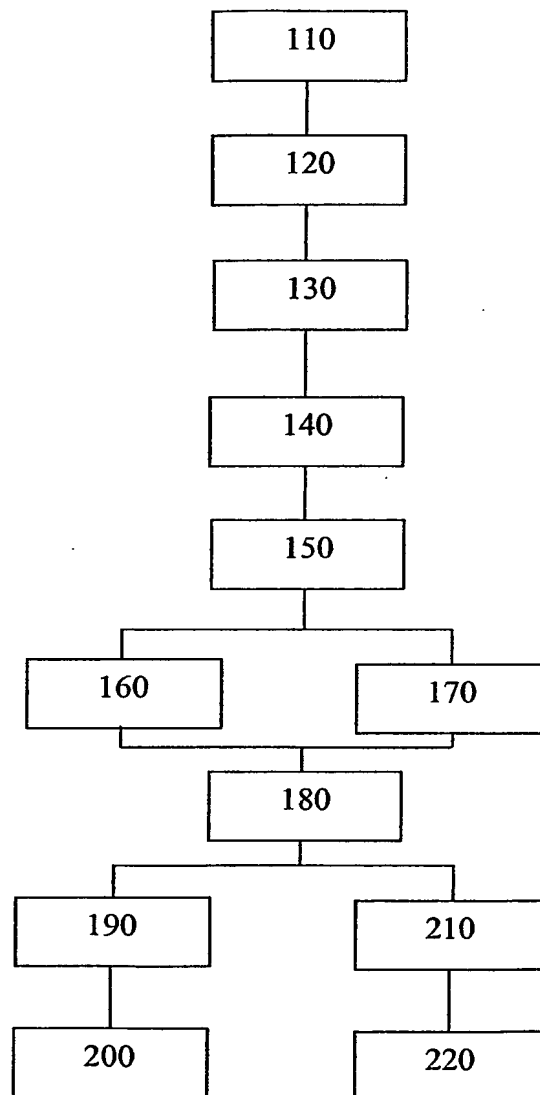
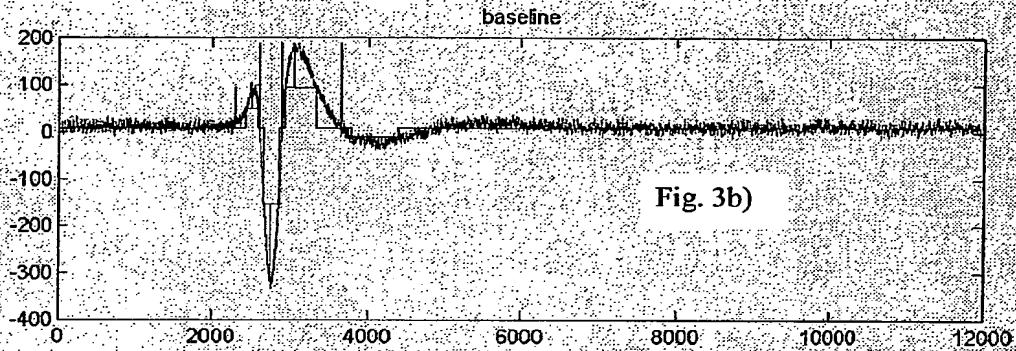
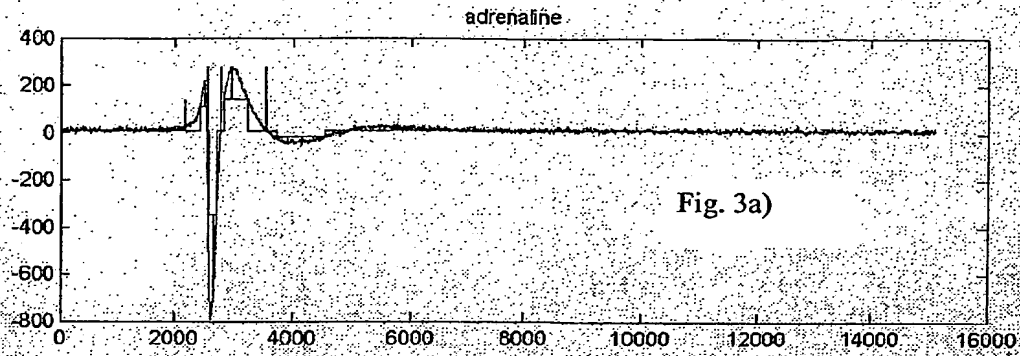


Fig. 2



```

Adrenaline:
x1:=Change_in_Wave_LengthRatio
x2:=Dif_2PositionChange
If x1<0 Then x1:=x1/x1 Else x1:=x1
x2:=x2/x2
HeightRatio:=x1/x2
If x1<0 Then x1:=x1/x1 Else x1:=x1
x2:=x2/x2
Crossing_1PositionChange:=x1/x2
Crossing_2PositionChange:=x2/x2
If (x3<0) Or (x2<0) Then x2:=1 Else x2:=0
HeightRatio:=x1/x2
x1:=x1/x1
x2:=x2/x2
x1:=x1/x1
GmxSCORE:=x1
x1:=1.2064*GmxSCORE+400.4883
If Abs(x1)>88 Then x1:=Exp(x1) Else x1:=Exp(Sqr(x1))+88
PREBLIT:=x1/110/x1

```

Fig 3c)

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Table 1: parameters extracted during this study is shown below. Due to formatting constraints table is continuous with left sides (end of the table rows) contiguous with right sides of the next table (beginning of table rows)

Change in Wave LengthRatio	Peak 1PositionChange	HeightRatio	FWHMRatio	Dip 1PositionChange	HeightRatio	FWHMRatio
1.26356	0.00000	2.31518	0.74658	-100.00000	2.23913	0.74731
0.97500	-620.00000	0.16079	0.54412	276.00000	0.56816	1.33166
0.86350	-12.00000	2.79385	1.21930	-50.00000	2.56919	0.94203
0.90889	0.00000	2.80435	0.65625	-158.00000	1.71665	0.67797
0.86531	0.00000	0.42693	1.90909	33.00000	0.99841	1.26042
0.95762	-3.00000	0.81525	1.15328	21.00000	0.96773	1.05325
1.14658	-72.00000	0.57479	0.91534	96.00000	0.75630	1.26630
0.76511	-53.00000	0.56172	1.57092	179.00000	0.91794	1.08383
0.89954	0.00000	0.53156	1.53383	164.00000	0.79308	1.30075
0.89875	34.00000	0.46560	0.83246	287.00000	0.77347	1.19231
0.80917	0.00000	2.89497	0.58781	-303.00000	0.94700	0.93976
0.61097	0.00000	1.97608	0.67935	-60.00000	1.10590	0.89881
0.97303	0.00000	0.74552	1.04965	79.00000	0.84397	1.16477
1.37586	-10.00000	0.39407	2.63636	19.00000	0.98129	0.70253
0.82038	0.00000	1.21668	0.96610	-24.00000	1.12246	1.22523
0.28447	0.00000	0.32602	4.87500	46.00000	3.34269	2.84722
1.40167	0.00000	1.57312	0.79310	-30.00000	1.29054	0.83846
1.03628	28.00000	0.73414	0.77949	13.00000	0.89436	1.02055
1.31690	0.00000	1.30378	1.16667	1.00000	1.19368	1.05435
0.70153	0.00000	0.98199	0.73980	-45.00000	1.12142	0.89634
0.67451	33.00000	0.50194	1.19277	122.00000	0.72518	1.48951
1.48014	-1.00000	1.43728	0.61905	-11.00000	1.19961	0.94495
Peak 2PositionChange	HeightRatio	FWHMRatio	Dip 2PositionChange	HeightRatio	FWHMRatio	StartPositionChange
-90.00000	1.53632	0.98492	-77.00000	1.47903	1.35000	-122.00000
91.00000	0.94925	1.02003	1183.00000	2.53731	1.22554	-486.00000
-131.00000	1.69789	1.11803	-236.00000	2.17211	0.67421	-140.00000
-140.00000	0.95408	1.02087	132.00000	1.04399	1.00366	125.00000
84.00000	0.92569	1.04156	1383.00000	1.22027	5.47973	-179.00000
-18.00000	0.98133	1.01193	171.00000	0.62042	2.30000	-25.00000
224.00000	0.95057	1.14550	28.00000	0.57138	4.60544	7.00000
177.00000	1.07984	1.03231	210.00000	1.00344	3.10448	-23.00000
-6.00000	1.21979	0.94135	130.00000	1.40185	1.99032	-66.00000
223.00000	1.16092	0.97239	331.00000	1.03233	1.49247	43.00000
-295.00000	0.77476	0.91623	-394.00000	0.65308	0.17849	69.00000
52.00000	0.66055	1.36935	676.00000	2.81169	16.45833	-15.00000
102.00000	1.06162	1.02721	-99.00000	0.49991	1.68613	15.00000
14.00000	0.87724	0.77383	-586.00000	1.05870	0.48364	-85.00000
73.00000	0.91530	1.29880	222.00000	1.10993	1.74118	-13.00000
42.00000	0.85935	1.35294	619.00000	0.47363	2.37500	-155.00000
27.00000	0.78138	1.40116	124.00000	1.82320	3.88189	106.00000
-79.00000	1.12311	1.19967	-138.00000	1.61896	3.83784	159.00000
15.00000	1.18856	1.02632	111.00000	0.92780	1.19804	-2.00000
-58.00000	0.57848	1.92945	-1058.00000	3.15236	1.18794	-375.00000
294.00000	1.22916	0.95604	-584.00000	3.21074	12.66667	-23.00000
-42.00000	1.60160	0.90741	667.00000	0.52278	0.84591	86.00000



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Table 1 continued

imperialine	labetalol	lidocaine	minoxidil	norepinephrine	pinacidil	sotalol
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	0	0	0
0	1	0	0	0	0	0
0	0	1	0	0	0	0
0	0	0	1	0	0	0
0	0	0	0	1	0	0
0	0	0	0	0	1	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

tea	tetrodotoxin	thapsigargin	verapamil
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1

Table 2 (a) Drug effect recognition matrix output (part)

o RECOGNIZING	adrenalin	amiodaro	bretylium	brevetoxi	charybdo	coltrimaz	DIDS
$\delta$	e	ne	n	tox	ole		
adrenaline	0.000	0.000	0.064	0.148	0.236	0.000	-0.742
amiodarone	0.000	0.000	0.016	-0.071	-0.195	0.000	0.582
bretylium	0.000	0.000	0.000	-0.190	0.105	0.000	0.526
brevetoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
charybdotoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
coltrimazole	0.000	0.000	-0.011	0.100	0.083	0.000	0.387
DIDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
diltiazem	0.000	0.000	-0.390	0.269	0.366	0.000	0.318
dobutamine	0.000	0.000	-0.133	-0.022	-0.150	0.000	-0.606
4-aminopyridine	0.000	0.000	-0.118	0.173	-0.026	0.000	-0.682
imperialine	0.000	0.000	0.000	0.000	0.000	0.000	0.000
labetalol	0.000	0.000	0.323	-0.292	0.148	0.000	0.828
lidocaine	0.000	0.000	0.069	0.295	0.032	0.000	0.148
minoxidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
norepinephrine	0.000	0.000	0.058	0.082	0.039	0.000	-0.047
pinacidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
sotalol	0.000	0.000	0.174	-0.094	0.181	0.000	-0.052
TEA+	0.000	0.000	0.000	0.000	0.000	0.000	0.000
tetrodotoxin	0.000	0.000	0.121	0.171	0.087	0.000	0.086
thapsigargin	0.000	0.000	-0.066	0.398	0.022	0.000	0.127
verapamil	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 2 (b) Drug effect recognition matrix output (part)

o RECOGNIZING	diltiazem	dobutami	4-	imperialin	labetalol	lidocaine	minoxidil
adrenaline	0.000	0.000	0.000	-0.484	0.000	0.000	-0.005
amiodarone	0.000	0.000	0.000	0.234	0.000	0.000	-0.041
bretylium	0.000	0.000	0.000	0.580	0.000	0.000	0.190
brevetoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
charybdotoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
coltrimazole	0.000	0.000	0.000	0.167	0.000	0.000	0.232
DIDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
diltiazem	0.000	0.000	0.000	-0.606	0.000	0.000	-0.218
dobutamine	0.000	0.000	0.000	0.142	0.000	0.000	-0.032
4-aminopyridine	0.000	0.000	0.000	0.001	0.000	0.000	0.048
imperialine	0.000	0.000	0.000	0.000	0.000	0.000	0.000
labetalol	0.000	0.000	0.000	0.004	0.000	0.000	-0.005
lidocaine	0.000	0.000	0.000	0.126	0.000	0.000	-0.012
minoxidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
norepinephrine	0.000	0.000	0.000	0.014	0.000	0.000	0.071
pinacidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
sotalol	0.000	0.000	0.000	0.010	0.000	0.000	0.218
TEA+	0.000	0.000	0.000	0.000	0.000	0.000	0.000
tetrodotoxin	0.000	0.000	0.000	0.470	0.000	0.000	0.238
thapsigargin	0.000	0.000	0.000	0.293	0.000	0.000	0.322
verapamil	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Table 2 (c) Drug effect recognition matrix output (part)

o RECOGNIZING $\delta$	norepinephrine	pinacidil	sotalol	TEA+	tetrodotoxin	thapsigargin	verapamil
adrenaline	0.000	0.453	0.000	0.635	0.000	0.000	0.783
amiodarone	0.000	-0.653	0.000	-0.462	0.000	0.000	-0.295
brevilium	0.000	0.682	0.000	0.213	0.000	0.000	0.079
brevetoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
charvbdotoxin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
coltrimazole	0.000	0.378	0.000	0.261	0.000	0.000	0.191
DIDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
diltiazem	0.000	-0.516	0.000	0.289	0.000	0.000	0.495
dobutamine	0.000	0.439	0.000	0.123	0.000	0.000	-0.263
4-aminopyridine	0.000	-0.145	0.000	0.064	0.000	0.000	-0.055
imperialine	0.000	0.000	0.000	0.000	0.000	0.000	0.000
labetalol	0.000	-0.426	0.000	-0.610	0.000	0.000	-0.075
lidocaine	0.000	0.279	0.000	0.199	0.000	0.000	-0.020
minoxidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
norepinephrine	0.000	0.085	0.000	0.014	0.000	0.000	-0.117
pinacidil	0.000	0.000	0.000	0.000	0.000	0.000	0.000
sotalol	0.000	0.398	0.000	0.160	0.000	0.000	0.466
TEA+	0.000	0.000	0.000	0.000	0.000	0.000	0.000
tetrodotoxin	0.000	0.330	0.000	0.036	0.000	0.000	-0.221
thapsigargin	0.000	-0.166	0.000	0.185	0.000	0.000	0.144
verapamil	0.000	0.000	0.000	0.000	0.000	0.000	0.000